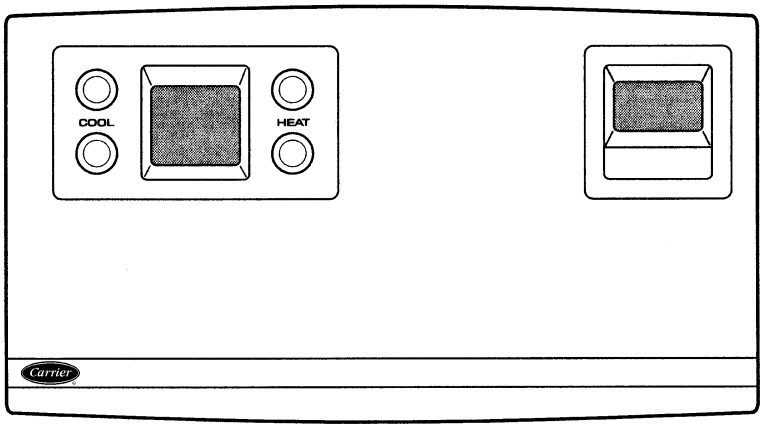
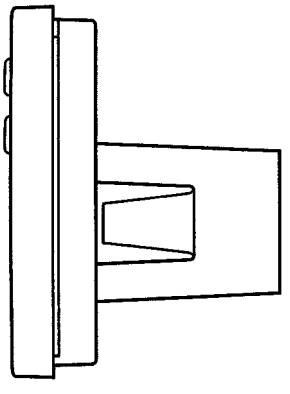
Product Specification

33CS Carrier Comfort System Linkage Thermostat

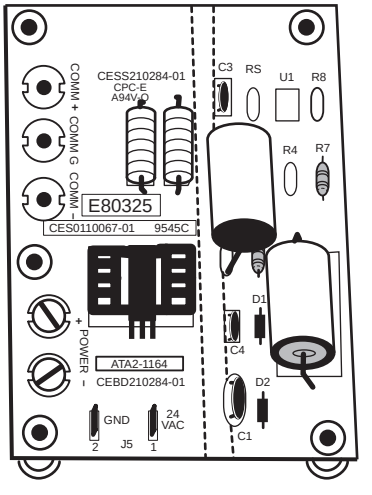
33CSKITLST-01



FRONT VIEW



SIDE VIEW



POWER SUPPLY

The 33CS linkage thermostat provides the following features and benefits:

Zone Control Capabilities
- Four levels of security
- Remote space temperature sensing and averaging
- Occupied and unoccupied heat and cool set points
- Occupied schedule with 8 time periods
- 18 holiday periods
- Network time broadcast
- Occupied set point range limit

Air Source Control Applications
- CCN linkage with up to 8 air source elements
- Occupied/Unoccupied operation
- Temperature compensated start

Network Capabilities
- Global occupancy

Features/Benefits

The Carrier Comfort System Linkage Thermostat is designed to be compatible with the full line of Carrier air source products including air handlers, unit ventilators, Comfort Controllers, and rooftop units. The linkage thermostat kit includes a linkage thermostat, a 24 vac transformer, and a 10 vdc power supply.

The linkage thermostat is a communicating device capable of perform ing standard CCN linkage with up to 8 air source elements on the communication bus. The communication bus is a simple, 3-wire, shielded cable installed between all communicating devices. The linkage thermostat is equipped with an electronic timeclock that can broadcast time to all devices on the communication bus. The linkage thermostat can be programmed to provide occupied and unoccupied time schedules.

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A Carrier Linkage System would consist of one linkage thermostat and up to 8 individual air source elements. The linkage thermostat maintains temperature conditions within a space by measuring zone temperature, maintaining schedules, and coordinating the distribution of information with connected elements.

The linkage thermostat provides unit scheduling for occupancy and allows user-defined set points to be programmed for occupied and unoccupied periods. The thermostat also contains a space temperature sensor for local temperature measurement. The linkage thermostat display allows the user to monitor operation mode, current set points, local space temperature, and time.

When a Comfort System *Air*Manager is used with the linkage thermostat, it provides a temperature compensated start feature which automatically calculates the time required to achieve the occupied set point. The feature then starts the unit prior to the scheduled time by the calculated amount, in order to achieve the occupied set point temperature by the start of the occupied period.

The Carrier linkage thermostat interfaces and communicates with up to 8 air sources. It is the only component required to interface air sources.

The linkage thermostat has the following features:

- provides a timeclock which is maintained internally and can be set at any user interface
- displays time at the linkage thermostat
- receives network time and can broadcast time to network
- maintains occupancy schedules (per standard Carrier Comfort Network occupancy POC [Product Outboard Control])
- determines occupied and unoccupied periods
- maintains and determines 18 holiday periods
- maintains occupied and unoccupied heating and cooling set points
- senses current zone temperature
- utilizes standard linkage table structures to maintain compatibility with all CCN devices
- supports global occupancy
- provides security access and lockout at the user interface
- provides set point adjustment range limiting
- provides the ability to broadcast a point to the network from a specified address
- determines biased occupancy periods using the linkage BIAS value

SPECIFICATIONS

Recommended Wiring **Communication** **Power**	 20 AWG, Shielded, Twisted, 3-Conductor Wire 18 AWG, Non-Shielded, 2-Conductor Wire
Operating Temperature F (C)	32 to 130 (0 to 54)
Storage Temperature F (C)	−40 to 158 (−40 to 70)
Operating Relative Humidity	10 to 95% (non-condensing)
Dimensions (in.)	7 1/16 x 3 7/8 x 7/8
Power Supply	24 vac

LEGEND

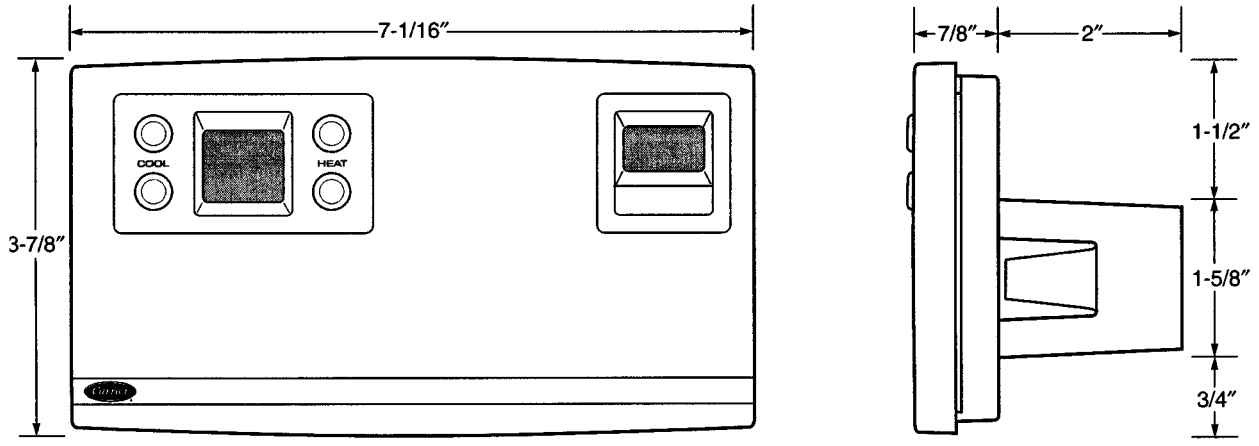
AWG — American Wire Gage

PRODUCT STANDARDS

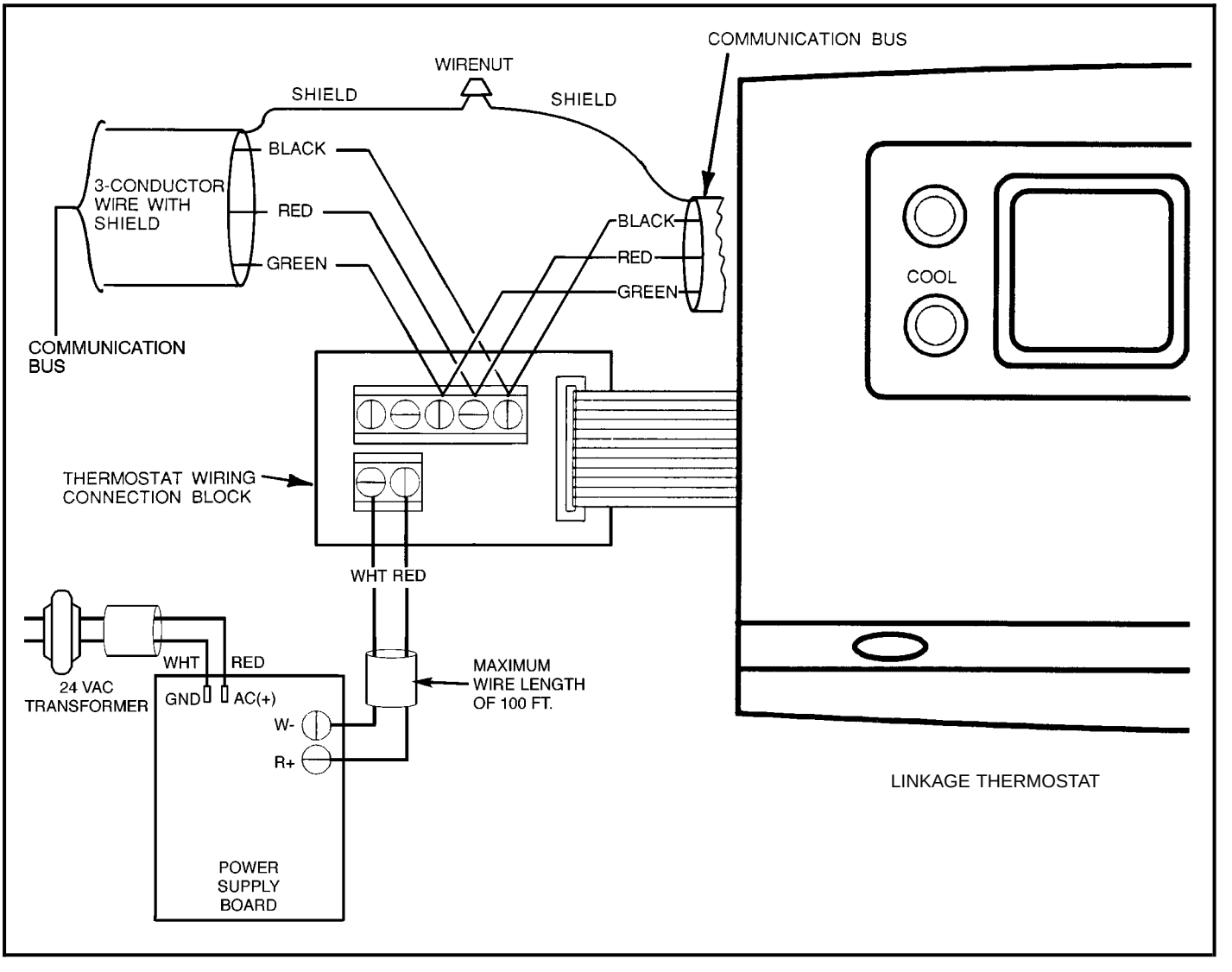
FCC Part 15J

NOTE: This control is considered a low voltage device by UL (Underwriters' Laboratories) and therefore does not require UL or CSA (Canadian Standards Association) approval.

Dimensional drawing



Typical wiring schematic



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